

Title (en)

ORGANIC ELECTRONIC DEVICE COMPRISING AN ORGANIC SEMICONDUCTOR LAYER

Title (de)

ORGANISCHE ELEKTRONISCHE VORRICHTUNG MIT EINER ORGANISCHEN HALBLEITERSCHICHT

Title (fr)

DISPOSITIF ÉLECTRONIQUE ORGANIQUE COMPRENANT UNE COUCHE ORGANIQUE SEMI-CONDUCTRICE

Publication

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Application

EP 17172396 A 20170523

Priority

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Abstract (en)

The present invention relates to a compound of formula 1 and an organic electronic device comprising an organic semiconductor layer, wherein at least one organic semiconductor layer comprises a compound of formula 1: wherein L 1 has the formula 2: and L 2 has the formula 3: wherein L 1 and L 2 are bonded at "" via a single bond independently to the same or different arylene groups or heteroarylenes group of Ar 1 ; and wherein X 1 , X 2 are independently selected from O, S and Se; Ar 1 is selected from substituted or unsubstituted C 20 to C 52 arylene or C 14 to C 64 heteroarylene, wherein the substituent of the substituted C 20 to C 52 arylene or C 14 to C 64 heteroarylene are independently selected from C 1 to C 12 alkyl, C 1 to C 12 alkoxy, CN, halogen, OH, C 6 to C 25 aryl and C 2 to C 21 heteroaryl; R 1 , R 2 are independently selected from substituted or unsubstituted C 1 to C 16 alkyl, wherein the substituent of substituted C 1 to C 16 alkyl is selected from C 6 to C 18 arylene or C 2 to C 12 heteroarylene; R 3 , R 4 are independently selected from substituted or unsubstituted C 1 to C 16 alkyl, substituted or unsubstituted C 6 to C 18 arylene, C 2 to C 20 heteroarylene, wherein the substituent of substituted C 1 to C 16 alkyl, the substituent of the substituted C 6 to C 18 arylene, C 2 to C 20 heteroarylene are independently selected from C 6 to C 18 arylene or C 2 to C 12 heteroarylene; n is selected from 1 to 5, wherein n is an integer number.

IPC 8 full level

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CPC (source: EP KR US)

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